

Amendments To The Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Please cancel claims 16, 17, 19, and 20 without prejudice.

Listing of Claims:

1. (previously presented) A file interface arrangement for providing remote file access to a data processing system via a network, the data processing system including a first processor arrangement coupled to a system input/output bus, and a network interface card that is a first card coupled to the system input/output bus, wherein the first processor arrangement of the data processing system executes an operating system and a network file system (NFS) client application, the file interface arrangement comprising:

a file interface card that is a second card;

a bus-interface circuit disposed on the file interface card and arranged to interface with the system input/output bus;

a second processor arrangement disposed on the file interface card and coupled to the bus-interface circuit;

a memory disposed on the file interface card and coupled to the second processor arrangement, the memory configured with program code that is executable by the second processor arrangement and that implements a standard NFS client protocol, at least one non-standard extension to the NFS client protocol, and a network protocol stack;

an interceptor module executing on the first processor arrangement and coupled to the operating system and to the system bus, the interceptor module configured and arranged to intercept NFS-client remote procedure calls from the NFS client application and send NFS-client remote procedure calls to the second processor arrangement via the system bus and send remote procedure calls that are not NFS calls to the network interface card; and

a network-interface circuit arrangement disposed on the file interface card and coupled to the second processor arrangement and arranged to send data received from the second processor arrangement over the network and receive data via the network.

2. (canceled)

3. (original) The arrangement of claim 2, wherein the operating system includes a message stream and the interceptor module is configured and arranged to intercept NFS messages from a message stream of the operating system.

4. (original) The interface arrangement of claim 3, wherein at least one non-standard extension to the NFS client protocol includes an interface to one or more of a storage area network, a database system, a name server, or a meta-data server.

5. (original) The arrangement of claim 2, wherein the operating system includes an RPC software layer, and the interceptor module is configured and arranged to intercept packets from the RPC layer of the operating system.

6. (original) The interface arrangement of claim 5, wherein at least one non-standard extension to the NFS client protocol includes an interface to one or more of a storage area network, a database system, a name server, or a meta-data server.

7. (previously presented) The interface arrangement of claim 1, wherein at least one non-standard extension to the NFS client protocol includes an interface to one or more of a storage area network, a database system, a name server, or a meta-data server.

8-17 (canceled)

18. (currently amended) A data processing system, comprising:
a first processor configured to execute an operating system and an NFS client application;
a system input/output (I/O) bus coupled to the processor;

a network interface card coupled to the system I/O bus, the network interface card arranged to send data received from the first processor over a network and receive data via the network;

a file interface card coupled to the system I/O bus, wherein the file interface card implements a standard NFS client protocol responsive to the NFS client application executing on the first processor, at least one non-standard extension to the NFS client protocol, and a network protocol stack, and is adapted to send NFS requests over the network and receive NFS data via the network; and

wherein the file interface card includes,

a bus-interface circuit arranged to interface with the system input/output bus;

a second processor coupled to the bus-interface circuit;

a memory coupled to the processor arrangement, the memory configured with program code that is executable by the second processor and that implements the standard NFS client protocol, each non-standard extension to the NFS client protocol, and the network protocol stack; and

a network-interface circuit arrangement coupled to the processor arrangement and arranged to send data received from the second processor over the network and receive data via the network;

wherein the file interface card and the network interface card have respective connections to the system I/O bus[.]; and

an interceptor module coupled to the operating system and to the system bus, the interceptor module configured and arranged to intercept NFS-client calls from the NFS client application and send NFS-client calls to the second processor via the system bus.

19-20. (cancelled)

21. (currently amended) The system of claim 18 [[20]], wherein the operating system includes a message stream and the interceptor module is configured and arranged to intercept NFS messages from a message stream of the operating system.

22. (previously presented) The system of claim 21, wherein at least one non-standard extension to the NFS client protocol includes an interface to one or more of a storage area network, a database system, a name server, or a meta-data server.

23. (currently amended) The system **[[arrangement]]** of claim 18 **[[20]]**, wherein the operating system includes an RPC software layer, and the interceptor module is configured and arranged to intercept packets from the RPC layer of the operating system.

24. (currently amended) The system **[[interface arrangement]]** of claim 23, wherein at least one non-standard extension to the NFS client protocol includes an interface to one or more of a storage area network, a database system, a name server, or a meta-data server.

25. (currently amended) The system **[[interface arrangement]]** of claim 18 **[[19]]**, wherein at least one non-standard extension to the NFS client protocol includes an interface to one or more of a storage area network, a database system, a name server, or a meta-data server.